

PRESSURE RELIEF ARRANGEMENT FOR A DISK BRAKE SYSTEM

ABSTRACT OF THE DISCLOSURE

A pressure relief arrangement for a disc-type brake system in which a master cylinder assembly applies and releases the brake. The pressure relief arrangement is in the form of a pressure relief valve located between the piston and reservoir of the master cylinder assembly. The pressure relief valve provides normal operation of the brake upon extension and retraction of the piston when fluid pressure remains below a predetermined threshold. When fluid pressure exceeds the predetermined threshold, the pressure relief valve establishes communication between the reservoir and the fluid flow path, to relieve the excessive pressure. In this manner, the pressure relief valve reduces or eliminates the brake calipers from functioning improperly when the brakes are applied, which can result from the excess pressure caused by fluid expansion and dynamic braking effects that tend to move the caliper pistons.